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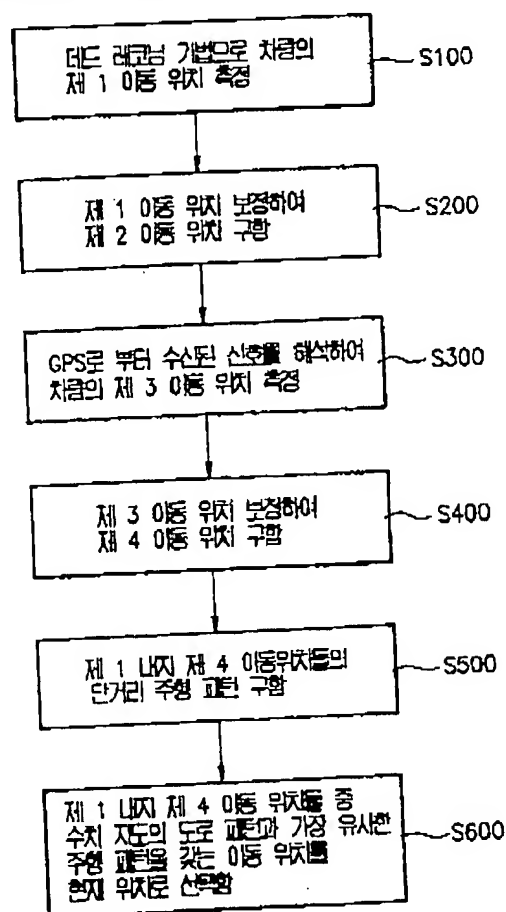
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(30) Priority:

(54) Title of Invention

GLOBAL POSITIONING SYSTEM USING DEAD RECKONING

Representative drawing



(57) Abstract:

PURPOSE: A global positioning system using a dead reckoning is provided to presume a position of a vehicle by using a dead reckoning method and a GPS receiver and select a most accurate position by getting a compensated position.

CONSTITUTION: The present position of a vehicle is measured by a dead reckoning method using data from direction and speed sensors, and the position is set to be the first movement position(S100). The first position is compensated on a digital road map by using a map matching method, and the compensated position is set to be the second movement position(S200). The present position of the vehicle is measured by analyzing the

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signals from a GPS satellite, and the measured position is set to be the third movement position(S300). The third position is compensated on the digital road map by using the map matching method, and the compensated position is set to be the fourth movement position(S400). The respective short-distance traveling patterns of the first to fourth positions are acquired(S500). The movement position, the short-distance traveling pattern of which is most similarly consistent with the road pattern of the digital map, is selected to be the most accurate present position of the vehicle (S600).

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